



### ABSTRACT

A freeze-dried biocompatible matrix that includes plasma proteins that are useful as implants for tissue engineering as well as in biotechnology. Methods of producing the matrix are also provided. Mechanical and physical parameters can be controlled by the use of auxiliary components or additives which may be removed after the matrix is formed in order to improve the biological properties of the matrix. These matrices may be used clinically *per se* or as a cell-bearing implant.